

Distinguished Lecture

PASCHKE DUALITY AND C *-ALGEBRA EXTENSIONS

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Time: 16:00-17:00, Wednesday, Aug 21,2019

Venue: Room 102, SCMS, Jiangwan Campus

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Abstract: We revisit the Paschke duality theorem in view point of study of C * -algebra extensions.

We will particularly interested in the special case that the following extensions

$$0 \rightarrow B \rightarrow E \rightarrow A \rightarrow 0$$
,

where A is a separable amenable C * -algebra and B is a non-unital but σ -unital purely infinite simple C * -algebra.

The study leads to show that every unital separable amenable purely infinite simple C * -algebra A with trivial K-theory is isomorphic to O2. This will lead to a Universal Coefficient Theorem for separable amenable C * -algebras.

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